

PASCAL HAEFLIGER, PHD, MChem, MPH, INP

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PROFILE

Dr Pascal Haefliger is a specialist in chemical safety, environmental health and disaster management. He has extensive international experience in the development of technical and advocacy materials, in health and environmental risk and impact assessment, in scientific research, in monitoring and evaluation, in capacity building, and in the provision and coordination of humanitarian assistance for chemical and environmental health emergencies. His education includes chemistry, public health, and international negotiation and policy making. He has excellent communication skills in French, English and German, and broad operational experience including international field missions in complex settings.

PROFESSIONAL EXPERIENCE

Director and Founder, Health & Environment Consulting (07/2010–present)

- Provision of chemical safety, environmental health and disaster management expertise in English and French to international organizations, government agencies, non-governmental organizations, academia, and commercial entities.
- Preparation and revision of scientific, technical, awareness raising and advocacy documents.
- Training and capacity-building activities.

Technical officer, Department of Public Health and Environment, World Health Organization (WHO), Geneva, Switzerland (10/2005–06/2010)

- Development of numerous WHO documents, publications and other material addressing chemical safety and environmental health.
- Management of specific chemical risk assessment projects and activities.
- Provision of technical expertise and support to WHO Member States in dealing with the public health aspects of chemical incidents and environmental health emergencies.
- Development and coordination of an international emergency response network for chemical incidents and environmental health emergencies.
- Support health sector participation and WHO contribution to international initiatives and instruments related to chemical safety.
- Training and capacity building activities, including for the implementation of International Health Regulations (IHR 2005).

Volunteer, Department of Public Health and Environment, World Health Organization (WHO), Geneva, Switzerland (11/2004–5/2005)

- Provision of support for WHO early detection and response system for chemical incidents and emergencies.
- Contribution to an international project to assess national capacities to manage health risks of deliberate use of biological, chemical and radionuclear materials.

Scientific researcher, Department of Bioinorganic Chemistry, University of Zurich, Switzerland (06/2003–05/2004)

- Development and testing of new radiopharmaceutical agents for the treatment of cancer.
- Preparation of various scientific publications.
- Supervision of PhD students.

Teaching Assistant, Department of Bioinorganic Chemistry, University of Zurich, Switzerland (11/1999-05/2003)

- Assistant lecturer for chemistry classes for undergraduate university students.
- Teaching assistant for chemistry laboratory practice.

EDUCATION

Executive Master in International Negotiation and Policy-Making (INP)

Graduate Institute of International and Development Studies, Geneva, Switzerland, 10/2009-06/2010

- Master thesis: "Health Governance in a globalized world: Time for renewed WHO leadership?"

Master of Advanced Studies in Public Health (MASPH)

University of Geneva, Switzerland, 09/2005-09/2008

- Master thesis: "Mass Lead Intoxication from Informal Used Lead Acid Battery Recycling in Dakar, Senegal"

PhD in Chemistry (Dr. sc. nat)

University of Zurich, Switzerland, 11/1999-05/2003

- PhD thesis: "Radiotherapy with ^{99m}Tc: Utopia or Promising Future?"
- Awarded a distinction for outstanding scientific work

Master of Science in Chemistry (Dipl. Chem. ETH)

Swiss Federal Institute of Technology-Zurich, Switzerland, 09/1994-03/1999

- Specialization in analytical and physical chemistry

FURTHER TRAINING AND EDUCATION

2009	Residential Summer Course in Epidemiology, European Educational Programme in Epidemiology
2008	Communication training, WHO, Geneva
2008	Writing effectively for WHO, Commonwealth of Learning
2006	Public Health Pre-Deployment Training, WHO, Geneva
2004	Training on International Negotiation, United Nations Institute for Training and Research (UNITAR), Geneva.

LANGUAGE SKILLS

French	native language
English	excellent (United Nations Language Proficiency Certificate)
German	excellent
Spanish	basic

SCIENTIFIC PUBLICATIONS

- A. Prüss-Ustün, C. Vickers, **P. Haefliger** and R. Bertollini, "Knowns and unknowns on burden of disease due to chemicals: a systematic review", *Environmental Health*, 2011, 10:9, doi:10.1186/1476-069X-10-9 (<http://www.ehjournal.net/content/pdf/1476-069X-10-9.pdf>)
- **P. Haefliger**, M. Mathieu-Nolf, S. Locicero, C. Ndiaye, M. Coly, A. Diouf, A. Lam Faye, A. Sow, J. Tempowski, J. Pronczuk, A.P. Filipe Junior, R. Bertollini and M. Neira, "Mass Lead Intoxication from Informal Used Lead Acid Battery Recycling in Dakar, Senegal", *Environmental Health Perspectives*, 2009, 117, 1535-1540. (<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2790507/pdf/ehp-117-1535.pdf>)
- T. Zilker, K. Gutschmidt, **P. Haefliger**, "Sleeping beauty disease - An outbreak of a neurological illness of unknown aetiology in Luanda province, Angola", *Clinical Toxicology*, 2008, 46 (5), 379. (www.toxinfo.org/abstracts/ClinicalToxicology_2008-46-379.pdf)
- **P. Haefliger**, N. Agorastos, A. Renard, G. Giambonini-Brugnoli, C. Marty, and R. Alberto, "Cell Uptake and Radiotoxicity Studies of a Nuclear Localization Signal Peptide-Intercalator Conjugate Labeled with [^{99m}Tc(CO)3]⁺", *Bioconjugate Chemistry*, 2005, 16, 582-587. (<http://www.ncbi.nlm.nih.gov/pubmed/15898725>)
- **P. Haefliger**, S. Mundwiler, K. Ortner, B. Spingler, and R. Alberto, G. Andócs, L. Balogh, and K. Bodo, "Structure, Stability, and Biodistribution of Cationic [M(CO)3]⁺ (M = Re, ⁹⁹Tc, ^{99m}Tc)

- Complexes with Tridentate Amine Ligands", Synthesis and Reactivity in Inorganic, Metal-Organic and Nano-Metal Chemistry, 2005, 35, 27-34. (www.informaworld.com/index/713731585.pdf)
- **P. Haefliger**, N. Agorastos, B. Spingler, O. Georgiev, G. Viola, and R. Alberto, "Induction of DNA Double Strand Breaks by Auger Electrons from ^{99m}Tc Complexes with DNA Binding Ligands", ChemBioChem, 2005, 6(2), 414-421. (www.ncbi.nlm.nih.gov/pubmed/15651047)
 - S. Laib, A. Krieg, **P. Haefliger**, N. Agorastos, "DNA-intercalation on pyrene modified surface coatings", Chemical Communications, 2005, 44, 5566-5568. (www.ncbi.nlm.nih.gov/pubmed/16358065)
 - S. Mundwiler, L. Candraia, **P. Haefliger**, K. Ortner, and R. Alberto, "Preparation of No-Carrier-Added Technetium-99m Complexes via Metal-Assisted Cleavage from a Solid Phase", Bioconjugate Chemistry, 2004, 15(1), 195-202. (<http://pubs.acs.org/doi/abs/10.1021/bc034171f>)
 - A. Krieg, **P. Haefliger**, S. Laib, N. Agorastos, S. Seeger, "DNA-Intercalating Surface Coating", European Cells & Materials, 2003, 6(Suppl. 1), 38. (www.ecmjournal.org/journal/supplements/vol006supp01/pdf/28.pdf)
 - **P. Haefliger**, K. Ortner, R. Alberto, "A DNA-Intercalating Complex of a Pyrene Derivative with the ¹⁸⁸Re(CO)₃-Moiety as a Potentially Improved Radiotherapeutic Drug", Journal of Labelled Compounds and Radiopharmaceuticals, 2001, 44 (Suppl. 1), S496-S497.

OTHER PUBLICATIONS (SELECTED)

- "Brief guide to analytical methods for measuring lead in blood", ISBN 978 92 4 150213 9, World Health Organization, 2011. (http://www.who.int/entity/ipcs/assessment/public_health/lead_blood.pdf)
- "Brief guide to analytical methods for measuring lead in paint", ISBN 978 92 4 150212 2, World Health Organization, 2011. (http://www.who.int/entity/ipcs/assessment/public_health/lead_paint.pdf)
- Short information documents to raise awareness and promote action on 10 chemicals of major public health concern, WHO, 2010. (Project manager) (http://www.who.int/ipcs/assessment/public_health/chemicals_phc/en/index.html)
- "Health Governance in a globalized world: Time for renewed WHO leadership?", Executive Master in International Negotiation and Policy-Making Thesis, 2010.
- "Combination of Intercalating Organometallic Complexes and Tumor Seeking Biomolecules for DNA Cleavage and Radiotherapy". R. Alberto and P. Haefliger, US Patent 7,582,295 B2, 2009. (<http://ip.com/patent/US7582295>)
- "Outbreak of lead intoxication in Thiaroye sur Mer, Senegal. WHO support mission", 7 - 21 June 2008. Dr Pascal Haefliger and Ms Joanna Tempowski. (http://www.who.int/entity/environmental_health_emergencies/events/Lead%20intoxication%20in%20Senegal%20-%20Mission%20executive%20summary%20EN1.pdf)
- "Environmental risk to health from gold mining activities and strengthening chemical safety in Mongolia", 26 February - 15 March 2008. Dr Kersten Gutschmidt and Dr Pascal Haefliger. (http://www.who.int/entity/environmental_health_emergencies/events/Mission%20debriefing%20%20v.9April%20for%20web.pdf)
- "Outbreak of Neurological Illness of Unknown Etiology in Cacuaco Municipality, Angola. WHO rapid assessment and cause finding mission", 2 November - 23 November 2007. Dr Kersten Gutschmidt, Dr Pascal Haefliger, Prof Thomas Zilker. (http://www.who.int/environmental_health_emergencies/events/Angola%20cause%20finding%20mission%20report%20Executive%20Summary%20for%20Web%20V190308.pdf)
- "The World Health Report 2007 - A safer future: global public health security in the 21st century" - contribution. (<http://www.who.int/whr/2007/en/index.html>)
- "Radiotherapy with ^{99m}Tc: Utopia or promising future?", PhD thesis, 2003.
- "Molecules for the Treatment and Diagnosis of Tumors", R. Alberto and P. Haefliger, International patent: WO 0050086, 2000. (<http://www.europatentbox.com/patent/EP1154798A1/description/2112761.html>)

MISSIONS AND MEETINGS (SELECTED)

- Field mission to investigate an outbreak of lead intoxication in Zamfara State, Nigeria, June 2010. (http://www.who.int/environmental_health_emergencies/events/nigeria_lead/en/index.html)
- UNEP/WHO Initial Organizational Meeting of the Global Alliance to Eliminate Lead in Paints, Geneva, 26-28 Mai 2010. (meeting organizer)
- WHO Meeting on Chemicals of Major Public Health Concern, Geneva, Switzerland, December 2009. (meeting organizer)
- Field mission to investigate an outbreak of lead intoxication in Dakar, Senegal, June 2008. (http://www.who.int/environmental_health_emergencies/events/Senegal2008_update2/en/index.html)
- WHO-CDC International Conference on Laboratory quality systems, Lyons, France, April 2008.
- Field mission to assess environmental risk to health from gold mining activities and strengthening chemical safety, Ulaanbaatar, Mongolia, March 2008. (http://www.who.int/environmental_health_emergencies/events/mongolia2008/en/index.html)
- Field mission to investigate a disease outbreak of unknown etiology in Cacucos municipality, Luanda, Angola, November 2007. (http://www.who.int/environmental_health_emergencies/events/angola2007/en/index.html)
- Final Meeting for the Development of Generic Scenarios, Alerting System and Training Modules relating to Release of Chemicals by Terrorists, Stockholm, Sweden, September 2007.
- Joint FAO/IAEA/OIE/WHO Technical Meeting on Global Survey of Laboratory Quality Systems, Lyons, France, August 2007.
- Joint WHO-IWA Meeting to strengthen WHO environmental health response to environmental health emergencies, London, United Kingdom, June 2007.
- Field mission to assess the public health impact of the ongoing release of toxic fumes by the Nyiragongo volcano, Goma, Democratic Republic of the Congo, September 2006.
- WHO Preliminary Assessment and Field Testing of National Capacity to Manage Health Risks of Deliberate Use of Biological, Chemical and Radionuclear materials, Manila, The Philippines, 2005.

TEACHING EXPERIENCE (SELECTED)

- "Public Health and Environment", invited lecture for medicine students of the University of Geneva, June 2011.
- "Outbreak of lead intoxication in Thiarye sur Mer, Senegal", lectures for students of the Master of Science and Environment of the University of Geneva: September 2010 and May 2011.
- Various chemical safety lectures to build national capacities for the sound management of chemicals in Mongolia, March 2008.
- Assistant lecturer for chemistry classes for undergraduate university students. (1999-2003)
- Teaching assistant for chemistry laboratory practice. (1999-2003)

MEMBERSHIPS AND VOLUNTARY ACTIVITIES

- Member of the Blacksmith Institute's Technical Advisory Board.
- Reviewer for various scientific journals.

PERSONAL INTERESTS

- Travel (numerous short and longer-term travels in various countries)
- Sailing
- Sports (skiing, snowboarding, mountainbiking, windsurfing, kitesurfing, paragliding, diving)
- Music